

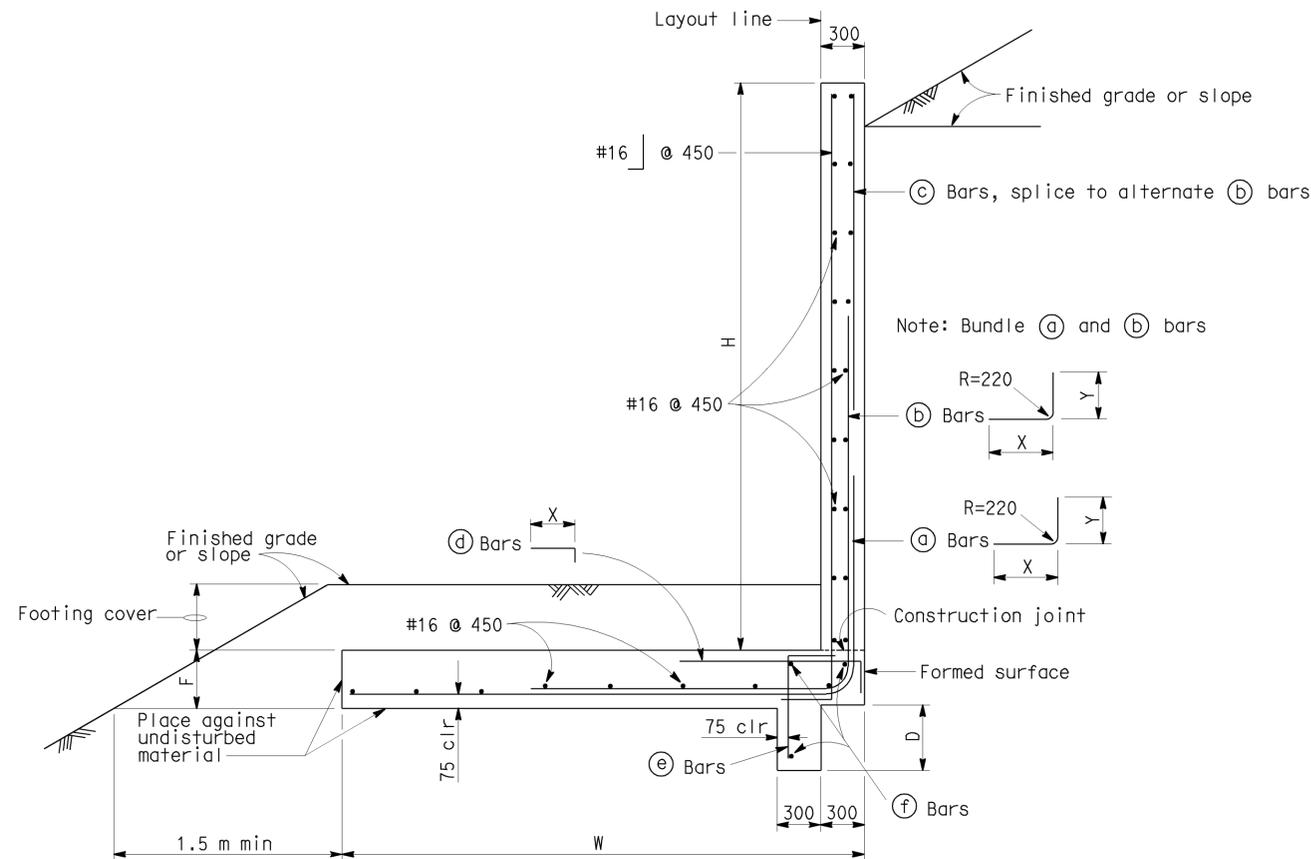


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED ENGINEER - CIVIL

PLANS APPROVAL DATE _____

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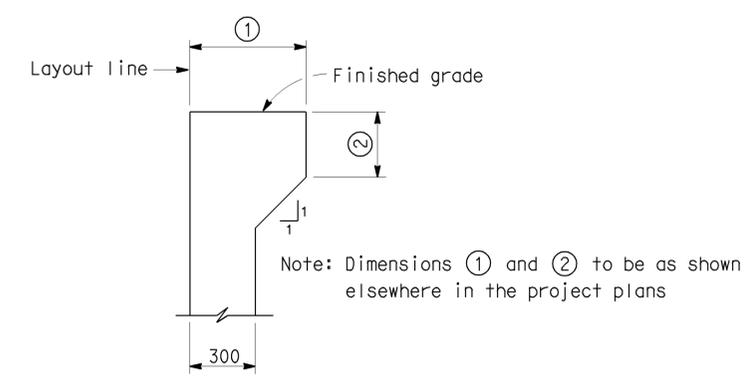
TYPICAL SECTION

Note: For details not shown, see

TABLE OF DIMENSIONS AND REINFORCING STEEL

DESIGN H (m)	1.2	1.82	2.4	3.0	3.6
W (m)	1.2	1.6	2.2	2.8	3.6
F (m)	.30	.30	.38	.38	.38
D (m)	.22	.22	.22	.45	.45
FOOTING COVER (m)	.30 min	.30 min	.45 min	.45 min	.45 min
a Bars	#16 @ 450	#16 @ 300	#19 @ 300	#19 @ 300	#19 @ 230
X	Cont	Cont	Cont	Cont	Cont
Y	Cont	Cont	Cont	1.5 m	1.5 m
b Bars				#19 @ 300	#19 @ 230
X				1.6 m	2.2
Y				Cont	2.5
c Bars					#16 @ 450
d Bars				#16 @ 300	#16 @ 300
X				1.2	1.2
e Bars				#16 @ 300	#16 @ 300
f Bars				3-#16	3-#16

Cont = Continuous



HAUNCH FOR CONCRETE BARRIER

GENERAL NOTES

Design: Service load design
 Loading case:
 1. Level slope with 240 psf surcharge
 2. 2:1 unlimited slope
 Concrete: $n=9, f'_c=3250$ psi, $f_c=1300$ psi
 Reinforcing steel: $f_y=60,000$ psi $f_s=24,000$ psi
 Soil:
 Backfill: $\phi=34^\circ, \gamma=120$ pcf
 Foundation: $\phi=34^\circ, c=200$ psf, $\gamma=120$ pcf
 Minimum allowable bearing pressure=2.0 ksf
 Lateral earth pressure: Coulomb's theory with $S=0^\circ$
 Seismic:
 1. Level slope, $k_h=0.3g$
 2. 2:1 unlimited slope, $k_h=0.1g$

NO SCALE
 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		RETAINING WALL TYPE 7, H = 1.2-3.6 m	
RELEASE DATE	DESIGN BY	CHECKED	RELEASED BY	DEPARTMENT OF TRANSPORTATION		KILOMETER POST		KILOMETER POST		SHEET OF	
9/22/93	J.C. MOESE	O. HOR									
FILE NO.	DETAILS BY	CHECKED	OFFICE CHIEF								
xs14-010	R. YEE	O. HOR	<i>Stramon Wood</i>								
	SUBMITTED BY	DRAWING DATE									
	J.C. MOESE	10/92									

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

CU EA

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

USERNAME => jsanchez

DATE PLOTTED => 16-JAN-2004 14:41

xs14-010.dgn